US 20140334457A1

(19) United States

(12) Patent Application Publication

(10) Pub. No.: US 2014/0334457 A1

(43) Pub. Date: Nov. 13, 2014

TIIROLA et al.

(54) **NEW CARRIER TYPE FOR TIME DIVISION COMMUNICATION**

(71) Applicant: **NOKIA SIEMENS NETWORKS OY**, Espoo (FI)

(72) Inventors: **Esa Tapani TIIROLA**, Kempele (FI); **Timo Erkki LUNTTILA**, Espoo (FI); **Kari Juhani HOOLI**, Oulu (FI)

(73) Assignee: **NOKIA SIEMENS NETWORKS OY**, Espoo (FI)

(21) Appl. No.: **13/890,883**

(22) Filed: **May 9, 2013**

Publication Classification

(51) **Int. Cl.**

H04L 5/00 (2006.01)

H04J 3/06 (2006.01)

(52) **U.S. Cl.**

CPC ***H04L 5/0053*** (2013.01); ***H04J 3/06*** (2013.01)

USPC **370/336**

(57) **ABSTRACT**

Certain embodiments relate to wireless communication systems, such as long term evolution advanced (LTE-A), which may be part of third generation partnership project (3GPP) LTE release 12 (Rel-12). More specifically, certain embodiments may provide an arrangement related to new carrier type for time division long term evolution (TD-LTE), which may also be related to Enhanced Interference Management and Traffic Adaptation. According to certain embodiments, a method can include determining that a split configuration is to be followed, in which at least one system information block configured uplink subframe is reconfigured as a new carrier type downlink subframe, whereas at least one other system information block configured subframe is as indicated by system information block configuration. The method can also include applying the determined split configuration to communications with an access point.